

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P236865

Luminaire Tested: **ARCH-L-AF72-120-D-U-T2R-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-120-D-U-T2R-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16702 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

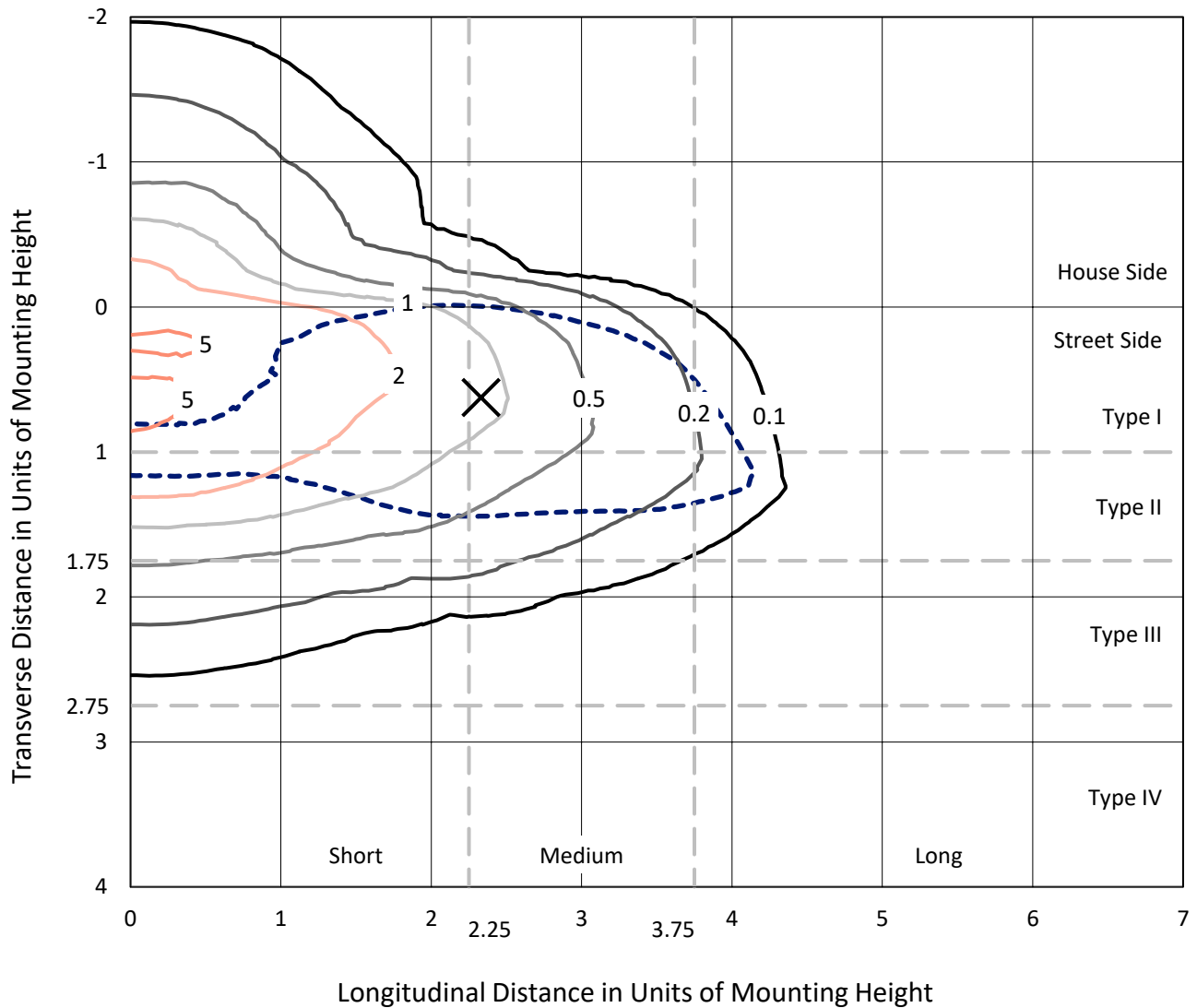
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

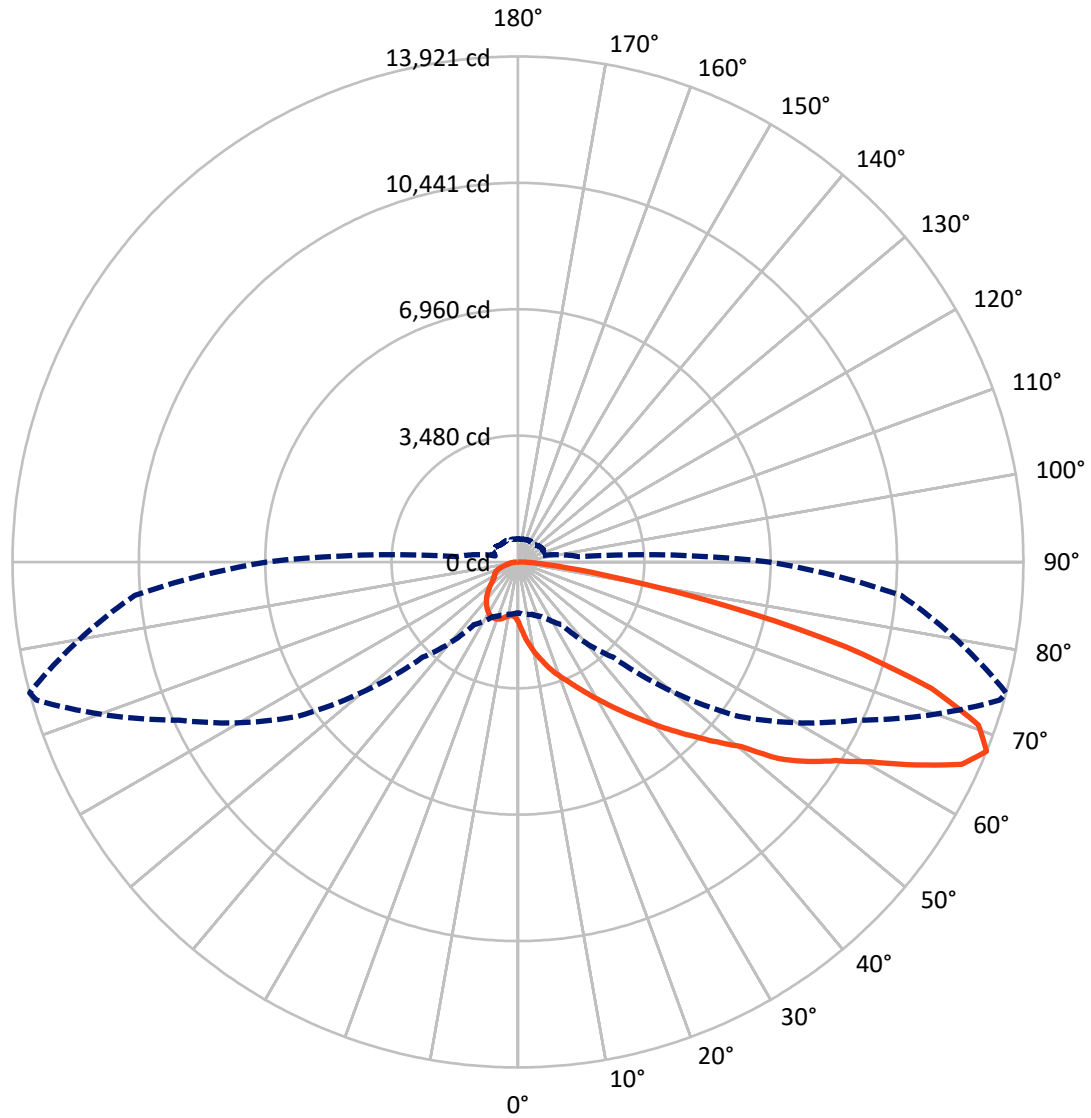
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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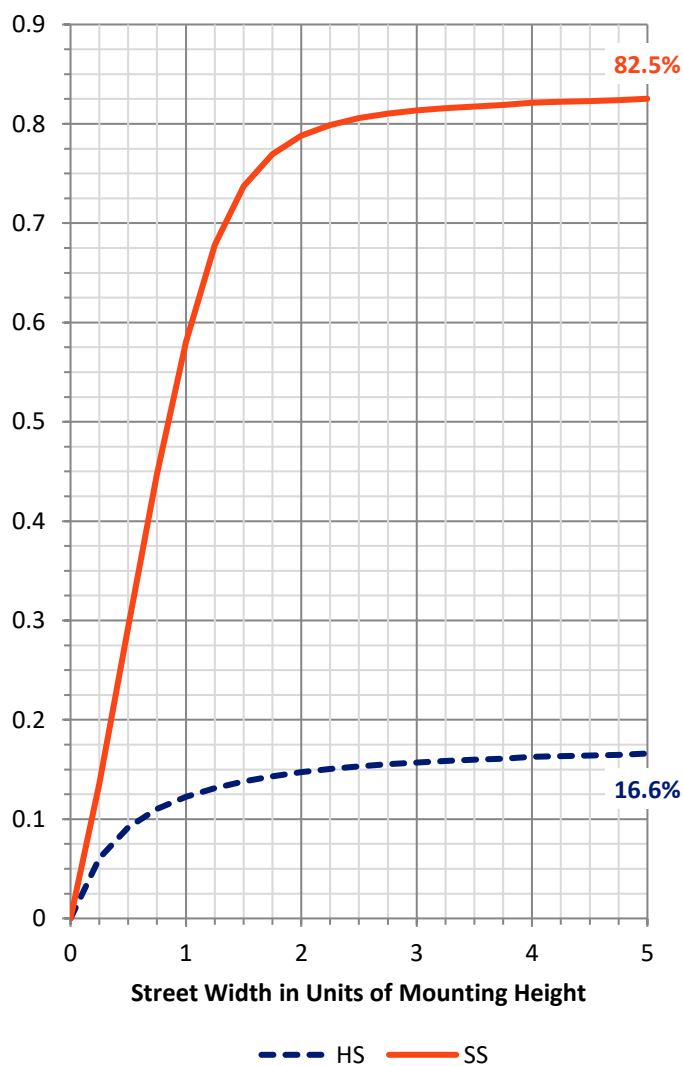
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2852.1	0.0	2852.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	13849.9	0.0	13849.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	16702.0	0.0	16702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.4	1.2
10°-20°	702.6	4.2
20°-30°	1281.6	7.7
30°-40°	2103.6	12.6
40°-50°	3042.0	18.2
50°-60°	3585.1	21.5
60°-70°	3483.8	20.9
70°-80°	1936.5	11.6
80°-90°	372.4	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16702.0	100.0
0°-180°	16702.0	100.0

Coefficient of Utilization

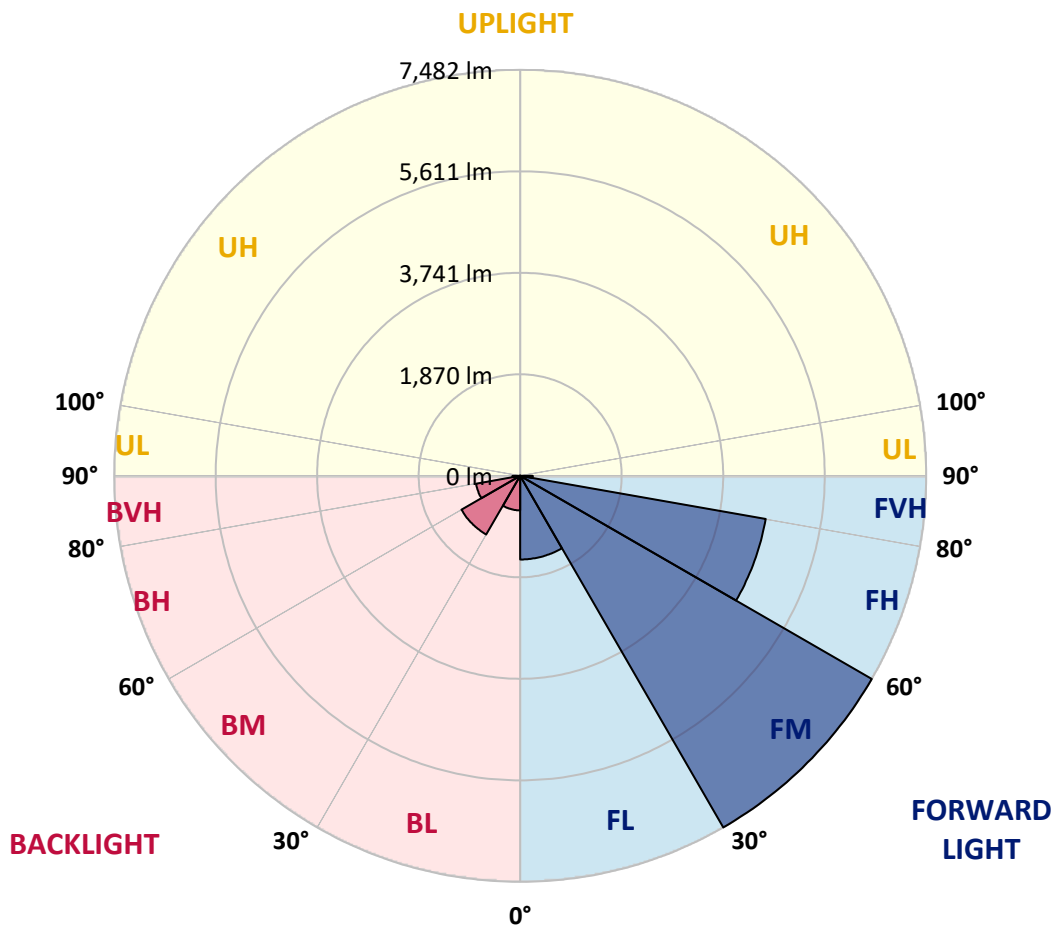


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1542.0	9.2			
FM (30°-60°)	7481.6	44.8			
FH (60°-80°)	4594.5	27.5			G2/5000
FVH (80°-90°)	231.7	1.4			G3/500
BL (0°-30°)	636.6	3.8	B2/1000		
BM (30°-60°)	1249.1	7.5	B2/2500		
BH (60°-80°)	825.8	4.9	B2/1000		G2/1000
BVH (80°-90°)	140.6	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1655.0	1655.0	1655.0	1655.0	1655.0	1655.0	1655.0	1655.0	1655.0	1655.0	1655.0
2.5°	2346.3	2353.3	2339.4	2307.9	2262.5	2178.7	2105.4	1976.2	1861.0	1847.0	1724.8
5°	2758.3	2765.3	2747.9	2709.5	2660.6	2569.8	2468.5	2300.9	2115.9	2081.0	1822.6
7.5°	3041.2	3044.6	3023.7	2985.3	2946.9	2856.1	2754.8	2566.3	2339.4	2311.4	1948.3
10°	3282.1	3289.1	3261.1	3236.7	3194.8	3104.0	2999.3	2800.2	2566.3	2527.9	2077.5
12.5°	3505.5	3512.5	3495.1	3474.1	3460.1	3376.3	3261.1	3023.7	2772.3	2730.4	2231.1
15°	3655.7	3662.7	3666.1	3694.1	3711.5	3652.2	3537.0	3278.6	2995.8	2957.4	2412.7
17.5°	3613.8	3631.2	3683.6	3784.9	3893.1	3896.6	3802.3	3530.0	3215.7	3173.8	2597.7
20°	3491.6	3505.5	3568.4	3722.0	3935.0	4057.2	4050.2	3784.9	3421.7	3376.3	2768.8
22.5°	3592.8	3610.3	3610.3	3704.6	3914.1	4141.0	4231.8	4036.3	3627.7	3585.8	2939.9
25°	4025.8	4036.3	3962.9	3924.5	4001.3	4210.8	4381.9	4308.6	3879.1	3830.3	3125.0
27.5°	4629.8	4612.4	4521.6	4368.0	4284.2	4340.0	4514.6	4567.0	4168.9	4109.6	3317.0
30°	5230.4	5219.9	5115.2	4909.1	4720.6	4601.9	4661.2	4797.4	4483.2	4413.3	3502.0
32.5°	5792.5	5775.1	5659.8	5418.9	5205.9	4986.0	4870.7	5006.9	4818.4	4738.1	3708.0
35°	6309.3	6263.9	6148.7	5897.3	5677.3	5467.8	5185.0	5205.9	5181.5	5097.7	3935.0
37.5°	6728.3	6693.3	6567.6	6333.7	6099.8	5900.8	5604.0	5432.9	5572.5	5492.2	4196.9
40°	7098.4	7060.0	6930.8	6696.8	6480.4	6291.8	6057.9	5708.7	6012.5	5921.7	4490.2
42.5°	7377.7	7349.8	7245.0	7014.6	6805.1	6634.0	6518.8	6057.9	6469.9	6382.6	4811.4
45°	7527.8	7499.9	7444.0	7259.0	7066.9	6934.3	6944.7	6473.4	6948.2	6874.9	5192.0
47.5°	7342.8	7363.7	7412.6	7377.7	7259.0	7196.1	7325.3	6902.8	7482.4	7412.6	5604.0
50°	6847.0	6867.9	7063.4	7304.4	7346.3	7423.1	7667.5	7398.6	8048.1	7992.2	6113.7
52.5°	5628.4	5743.6	6284.8	6860.9	7255.5	7573.2	8048.1	8135.4	9001.3	9001.3	7014.6
55°	4252.7	4354.0	4972.0	5977.6	6902.8	7587.2	8327.4	8634.7	9689.1	9703.1	7485.9
57.5°	3446.2	3509.0	3812.8	4842.8	6162.6	7412.6	8659.1	9064.1	10261.7	10324.6	8093.5
60°	2796.7	2831.7	3030.7	3746.5	5139.6	6941.2	8896.5	9678.6	11078.8	11166.0	8868.6
62.5°	2248.6	2283.5	2416.2	2845.6	4032.8	6057.9	8854.6	10317.6	12168.1	12311.3	9884.6
65°	1794.7	1833.1	1920.4	2185.7	2988.8	4961.5	8425.2	10645.8	13295.9	13435.6	10558.5
67.5°	1400.1	1435.0	1494.4	1669.0	2105.4	3711.5	7409.1	10300.1	13802.2	13920.9	10593.4
70°	1057.9	1075.4	1124.3	1236.0	1504.9	2465.0	5799.5	9140.9	13348.3	13456.5	9895.1
72.5°	820.5	817.0	845.0	900.8	1051.0	1696.9	3844.2	7433.6	11801.5	11913.2	8442.6
75°	670.4	666.9	684.3	701.8	761.2	1138.3	2269.5	5597.0	9525.0	9312.0	6333.7
77.5°	565.6	562.1	579.6	583.1	607.5	785.6	1291.9	3683.6	6354.7	5988.0	3568.4
80°	478.3	474.9	495.8	502.8	520.2	576.1	743.7	1993.7	3191.3	3023.7	1703.9
82.5°	359.6	373.6	412.0	429.5	450.4	426.0	460.9	879.9	1480.4	1414.1	740.2
85°	174.6	206.0	310.7	345.7	370.1	268.9	314.2	415.5	666.9	635.5	300.3
87.5°	59.4	52.4	185.1	220.0	240.9	122.2	174.6	230.4	275.8	251.4	94.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1655.0	1655.0	1655.0	1655.0	1655.0	1655.0	1655.0	1655.0	1655.0	1655.0	1655.0
2.5°	1672.5	1620.1	1543.3	1483.9	1445.5	1414.1	1400.1	1396.6	1389.6	1386.2	1386.2
5°	1707.4	1613.1	1494.4	1431.5	1414.1	1400.1	1407.1	1410.6	1410.6	1410.6	1410.6
7.5°	1759.8	1627.1	1483.9	1442.0	1438.5	1438.5	1459.5	1470.0	1476.9	1476.9	1476.9
10°	1829.6	1651.5	1501.4	1466.5	1476.9	1483.9	1508.4	1522.3	1529.3	1532.8	1536.3
12.5°	1923.9	1703.9	1536.3	1508.4	1522.3	1525.8	1543.3	1550.3	1557.2	1560.7	1560.7
15°	2049.6	1780.7	1592.2	1557.2	1560.7	1557.2	1557.2	1550.3	1546.8	1546.8	1553.7
17.5°	2178.7	1854.0	1641.0	1592.2	1578.2	1550.3	1529.3	1511.9	1501.4	1494.4	1497.9
20°	2307.9	1920.4	1669.0	1599.1	1560.7	1515.3	1476.9	1452.5	1438.5	1424.6	1431.5
22.5°	2437.1	1983.2	1679.4	1578.2	1522.3	1456.0	1414.1	1375.7	1344.3	1323.3	1326.8
25°	2580.3	2053.0	1679.4	1553.7	1470.0	1400.1	1347.7	1284.9	1239.5	1222.0	1229.0
27.5°	2723.4	2112.4	1662.0	1508.4	1410.6	1340.8	1263.9	1190.6	1162.7	1152.2	1155.7
30°	2866.6	2157.8	1623.6	1452.5	1347.7	1270.9	1169.7	1120.8	1085.9	1057.9	1061.4
32.5°	3009.7	2189.2	1571.2	1382.7	1281.4	1183.6	1099.8	1044.0	981.1	946.2	949.7
35°	3173.8	2213.7	1508.4	1312.8	1208.1	1106.8	1044.0	953.2	886.9	858.9	851.9
37.5°	3344.9	2231.1	1442.0	1236.0	1134.8	1051.0	988.1	876.4	813.5	775.1	771.6
40°	3530.0	2238.1	1361.7	1155.7	1064.9	1016.0	914.8	831.0	722.8	698.3	698.3
42.5°	3749.9	2234.6	1281.4	1075.4	988.1	935.7	862.4	824.0	729.7	705.3	691.3
45°	4001.3	2234.6	1194.1	981.1	911.3	834.5	803.1	778.6	715.8	726.2	733.2
47.5°	4287.6	2227.6	1089.4	904.3	848.5	782.1	764.7	712.3	687.8	694.8	701.8
50°	4682.2	2238.1	995.1	841.5	803.1	747.2	726.2	698.3	687.8	691.3	687.8
52.5°	5230.4	2203.2	904.3	803.1	768.1	694.8	694.8	691.3	694.8	691.3	691.3
55°	5530.6	2126.4	838.0	782.1	743.7	670.4	684.3	691.3	698.3	694.8	694.8
57.5°	5956.6	2074.0	785.6	768.1	729.7	663.4	677.4	691.3	694.8	691.3	691.3
60°	6459.4	2039.1	750.7	771.6	719.3	663.4	680.9	691.3	687.8	684.3	684.3
62.5°	7042.5	2025.1	726.2	782.1	708.8	666.9	680.9	691.3	677.4	673.9	673.9
65°	7262.5	1899.4	694.8	789.1	715.8	666.9	677.4	680.9	663.4	659.9	656.4
67.5°	6923.8	1682.9	649.4	775.1	736.7	666.9	666.9	663.4	642.4	639.0	632.0
70°	6166.1	1396.6	579.6	729.7	750.7	670.4	652.9	635.5	614.5	614.5	600.6
72.5°	5048.8	1099.8	488.8	649.4	740.2	680.9	625.0	600.6	576.1	576.1	562.1
75°	3638.2	820.5	391.1	541.2	694.8	677.4	590.1	558.7	530.7	527.2	509.8
77.5°	2074.0	576.1	317.7	422.5	618.0	659.9	558.7	509.8	478.3	467.9	457.4
80°	1064.9	387.6	258.4	331.7	513.3	611.0	534.2	453.9	419.0	401.5	384.1
82.5°	506.3	258.4	199.0	244.4	387.6	534.2	502.8	391.1	352.6	331.7	310.7
85°	227.0	153.6	132.7	157.1	275.8	415.5	443.4	321.2	275.8	345.7	254.9
87.5°	73.3	69.8	69.8	73.3	132.7	181.6	324.7	237.4	220.0	181.6	153.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)